Sequence listing <110> Bayer Aktiengesellschaft Anti-Kazlauskas lipases <120> <130> LeA 35 991 <160> <170> PatentIn version 3.1 <210> 1 <211> 885 <212> DNA <213> artificial <220> <221> CDS (1)..(885) <222> <223> <400> 1 atg gca cag gtg aag gcc aac ggc att acc ctc gag tat gaa gag cag Met Ala Gln Val Lys Ala Asn Gly Ile Thr Leu Glu Tyr Glu Glu Gln 48 ggc cat cgc cac cat ccg tcc atg ctc ctc att atg ggc ctg ggc Gly His Arg His His Pro Ser Met Leu Leu Ile Met Gly Leu Gly Gly 96 cag tta atc gac tgg ccc gag gag ttc atc cgg ggg ctg gct gaa cga Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg 144 ggc ttc cgg gta atc tgt ttc gac aac cgc gac gcg ggg ctt tcg acg Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr 192 aaa ctt gaa ggc gtg aaa aaa ccg aac att gcc cgg gta ttt ctc ctg Lys Leu Glu Gly Val Lys Lys Pro Asn Ile Ala Arg Val Phe Leu Leu 240 gcg agc atg ggc cta aag ccc agg gtg cct tac acc ctc gac gac atg Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met 288 gcc ctg gac acc gtg ggg ctg atg gat gcc ctg ggc att gag agc acc Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr 105 110 cac gta gtt ggc gtc tcc atg ggc ggc atg att gcg cag att cta ggg His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly 384 120 gcg aag cac ggg gag cgg gtg aaa tcc ctt acc ctg atg att acc tcc Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser 432 tee gge aac eec ege atg eeg geg eec agg eeg eag gtg etg eaa aag Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys 480 155 ttt atg cgg gtg ccc aag agc atg gat aag gaa gag tgg att aaa tac Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 528

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aac ttg gag ctt tta acc acc atc ggc agc ccc ggg ttg gac cgg gag Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu 180 185 190	576
aag ctg gcc tta gac gtg agg aag agc ata gag cgg tgc ctt tgc ccc Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro 195 200 205	624
gaa ggc acg cag cgg cag ctg gca gcc atc ctg cag agc ggc agc agg Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg 210 215 220	672
gtg aag ctg ctc cgg cgg atc gct gtc ccc acc ctg gtc atc agc ggg Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly 235 240	720
gcg gaa gat ccc ctc ctg ccg tac cag tgc ggc cgg gac att gcc gac Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp 245 250 255	768
cat atc ccg gga gcc cgc ttc gag ctc atc gag ggc atg ggg cac gac His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp 260 265 270	816
att ccc gag cgg cac atc ccc cgg ctg att gag ctc atc gcc ggg cac Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His 275 280 285	864
gcc gcg gcc gcg gaa gct taa Ala Ala Ala Ala Glu Ala 290	885
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Gln Leu Ile Asp Trp Pro Glu Glu Phe Ile Arg Gly Leu Ala Glu Arg 35 40 45	
Gly Phe Arg Val Ile Cys Phe Asp Asn Arg Asp Ala Gly Leu Ser Thr 50 55 60	

Ala Ser Met Gly Leu Lys Pro Arg Val Pro Tyr Thr Leu Asp Asp Met 85 90 95

Ala Leu Asp Thr Val Gly Leu Met Asp Ala Leu Gly Ile Glu Ser Thr 100 105 110

His Val Val Gly Val Ser Met Gly Gly Met Ile Ala Gln Ile Leu Gly 115 120 125

Ala Lys His Gly Glu Arg Val Lys Ser Leu Thr Leu Met Ile Thr Ser 130 135 140

Ser Gly Asn Pro Arg Met Pro Ala Pro Arg Pro Gln Val Leu Gln Lys 145 150 155 160

Phe Met Arg Val Pro Lys Ser Met Asp Lys Glu Glu Trp Ile Lys Tyr 165 170 175

Asn Leu Glu Leu Leu Thr Thr Ile Gly Ser Pro Gly Leu Asp Arg Glu 180 185 190

Lys Leu Ala Leu Asp Val Arg Lys Ser Ile Glu Arg Cys Leu Cys Pro 195 200 205

Glu Gly Thr Gln Arg Gln Leu Ala Ala Ile Leu Gln Ser Gly Ser Arg 210 215 220

Val Lys Leu Leu Arg Arg Ile Ala Val Pro Thr Leu Val Ile Ser Gly
225 230 235 240

Ala Glu Asp Pro Leu Leu Pro Tyr Gln Cys Gly Arg Asp Ile Ala Asp 245 250 255

His Ile Pro Gly Ala Arg Phe Glu Leu Ile Glu Gly Met Gly His Asp 260 265 270

Ile Pro Glu Arg His Ile Pro Arg Leu Ile Glu Leu Ile Ala Gly His 275 280 285

Ala Ala Ala Glu Ala 290